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ISO/IEC JTC 1/WG 10 Internet of Things has begun work on ISO/IEC Technical Report of Use Cases for IoT. The scope of the TR is

“This Technical Report comprises the use cases for Internet of Things submitted to ISO/IEC JTC 1 WG 10 between June 2015 and May 2016. The initial objective of this Technical Report is the identification of IoT scenarios and use cases based on real-world applications and requirements. Use cases are a well-known tool for expressing requirements at a high level with real-life relevance. The use cases provide a practical context for considerations on interoperability and standards based on user experience. They make it clear where existing standards can be further used and highlight where standardisation work is needed.

A further objective of this report is to highlight potential areas for standardisation in the IoT environment to ensure ease of operation and interoperability.”

A Use Case is simply a “story” about how a system will be used. Use Cases allow users to express their information needs in a way that will lead to an ICT or automation system which will meet their requirements. The description of general functionalities of systems in a use case is independent of design specifics and allows the identification of requirements. The analysis of Use Cases can support the development of a reference architecture, the identification of interfaces and protocols and the detection of possible standardisation gaps.

The text of the Technical Report is based on use cases submitted by ISO/IEC JTC 1/WG 10 experts and liaisons using IEC 62559-2:2015, Use case methodology - Part 2: Definition of the templates for use cases, actor list and requirements list. This specification defines the structure of a use case template, template lists for actors and requirements, as well as their relation to each other (see WG10 N0090 attached).

ISO/IEC JTC 1/WG 10 has identified a number of IoT application areas (see annex to N0090) and is requesting all its liaisons to consider submitting an IoT use case to the next meeting of ISO/IEC JTC 1/WG 10 in May in Berlin for inclusion in the IoT Use Cases Technical Report. The current draft of the IoT Reference Architecture is also attached for your consideration and comment.